

# Tiling



# Tiling

**Tiles** can be applied to drylined walls or to the surface of lightweight partition systems. Tiling can be carried out in any type of building, either in dry areas or in areas subject to intermittent moisture conditions. Typical applications include domestic and commercial shower areas, toilets, bathrooms and kitchens. Tiles up to 12.5mm thick with a maximum weight of 32kg/m<sup>2</sup> (including grout and adhesive) for Gyproc Plasterboard and 50kg/m<sup>2</sup> (including grout and adhesive) for Aquaroc Fibre Cement board can be accommodated. The tiles are fixed using a suitable adhesive.



## Key facts

- Suitable for domestic and commercial showers, toilets, bathrooms and kitchens
- Accommodates tile weights up to 32kg/m<sup>2</sup> (Gyproc Plasterboard) or 50kg/m<sup>2</sup> (Aquaroc Fibre Cement board) for drylined walls
- M2TECH<sup>1</sup> and Moisture resistant board options for wet use areas

<sup>1</sup> Mold and moisture resistant plasterboard

## Applications

Kitchens and bathrooms.

## Sector

✓ Sport and leisure

✓ Education

✓ Healthcare


✓ Villa residential

✓ Apartment buildings


✓ High-rise multi-occupancy


# System components

## Board products

	<b>Gyproc Moisture Resistant<sup>1</sup></b>	
	Thickness	12.5, 12.7, 15, 15.9mm
	Width	1200mm

	<b>Gyproc FireStop MR<sup>1</sup></b>	
	Thickness	12.5, 12.7, 15, 15.9mm
	Width	1200mm

	<b>Gyproc Duraline MR<sup>1</sup></b>	
	Thickness	15, 15.9mm
	Width	1200mm

	<b>Aquaroc Fibre Cement Board</b>	
	Thickness	6, 9, 12, 15mm
	Width	1200mm


<sup>1</sup> Available with Activ'Air and M2TECH technology.

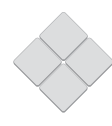



**NB** In dry conditions any paper faced Gyproc board is a suitable substrate for tiling.

**NB** Tapered edge plasterboards are normally used where part-height tiling occurs. Square edge boards can be used to suit full height and width tiling.

## Fixing and finishing products

	<b>Waterproof sealant (by others)</b>
	For sealing cut edges.

	<b>Tiles (by others)</b>	
	Thickness	Up to 12.5mm
	Weight	For Gyproc Plasterboard - 32kg/m <sup>2</sup> (maximum including adhesive and grout)
		For Aquaroc Fibre Cement board - 50kg/m <sup>2</sup> (maximum including adhesive and grout)

	<b>Tile adhesive (by others)</b>

### Planning - key factors

Gyproc moisture resistant (MR)/M2TECH (Mold & Moisture Resistant) grade boards or Aquaroc Fibre Cement boards are recommended for intermittent moisture applications, including splashbacks. Alternatively, for splashbacks, boards may be coated with two coats of sealer to prepare for tiling. Cut edges of plasterboards must be appropriately sealed / caulked at abutments. The tolerance on the finished tile surface quoted in BS 5385: Part 1, i.e. 3mm under a 2m straightedge with thin-bed adhesives, is such that it will reflect very accurately the standard of the background surface. Tolerance standards for drylining and partition systems are also given in BS 8212.

Two coats of sealer applied to the face of standard grade plasterboards, with the edges adequately protected from moisture may also be suitable to receive a tile finish. The application of sealer provides surface water absorption resistance only, and does not meet the performance requirements for moisture resistant grade boards as defined in EN 520, type H1.

### Detailing at junctions

Designers must give consideration to the precautions necessary at junctions to ensure that moisture is not allowed to penetrate or collect, e.g. at the base of walls where showers are specified with tiling to plasterboard, and at other junctions such as bath edges.

### Services

The cavity above the metal framework facilitates the incorporation of services. Pipes and conduits should be fixed in position before installing the framing. Where light fittings, access panels and similar components are incorporated as part of the design requirements, consideration must be given to maintaining the integrity of the ceiling to meet fire resistance and sound insulation requirements.

Refer to Service installations - section 3.4

### Fixtures

Fixtures with a maximum weight of 3kg, e.g. single lights, can be fixed into the channels. For other fixtures, independent suspension should be provided from the structure.

### Board finishing

Refer to Finishing systems - section 9

## Performance

### Table 1 - Tiling on partition systems

System	Board type (including MR, M2TECH variants and Aquaroc Fibre Cement Board)	Minimum Board Thickness each side mm
<b>GypWall ROBUST</b>	DuraLine	15
<b>GypWall CLASSIC, GypWall QUIET</b>		
50mm, 70mm, and 100mm stud	Any single layer 15mm board, any double layer specification	15 1 x 12.5 + 1 x 6 2 x 12 2 x 12.5 2 x 15 3 x 12.5 3 x 15
150mm stud	Any single layer 15mm board, any double layer specification	15 1 x 12.5 + 1 x 6 2 x 12 2 x 12.5 2 x 15 3 x 12.5 3 x 15
<b>GypWall AUDIO</b>	Regular, FireStop	2 x 15 3 x 15 4 x 15
<b>ShaftWall</b>	FireStop	1 x 15 1 x 15 + 1 x 6 2 x 12.5 2 x 15

### Table 2 - Tiling on drylined walls and independent wall lining

System	Board type (including MR and M2TECH variants)	Minimum Board Thickness each side mm
<b>Drilyner BASIC</b>	Regular, Moisture Resistant, Aquaroc Fibre Cement Board	12 12.5, 15
<b>Gyplyner IWL</b>	Regular, FireStop, Moisture Resistant, DuraLine, Aquaroc Fibre Cement Board	15 1 x 12.5 + 1 x 6 2 x 12.5
<b>Gyplyner UNIVERSAL</b>	Regular, FireStop, Moisture Resistant, DuraLine, Aquaroc Fibre Cement Board	12 12.5, 15

**NB** The recommendations given are based on experience and laboratory / site testing. In practice, performance will be dependent on factors such as workmanship and site conditions.

Stud centres mm	Additional support
400	N/A
400	N/A
600	Extra stud to give 300mm centres at tiling height
400 400 400	N/A
600	Studs at 300mm centres (or Gypframe 103 FC 50 Fixing Channel at 1200mm centres) for single layer lining specifications. The two layers of 12.5mm or 15mm plasterboard are bonded with a continuous bead of sealant midway between studs.

Support centers mm	Additional support centers
400/450 600	Horizontal dabs of Gyproc Plasterboard adhesive at mid-storey height
400 400	Mid-height support from framework to structure
400	Fixing brackets at 600mm centres